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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/543,055	07/21/2005	Koji Kodama	Q89305	5687
65565 SUGHRUE-265	7590 03/21/200 5 550	8	EXAMINER	
2100 PENNSY	LVANIA AVE. NW		FIORITO, JAMES	
WASHINGTON, DC 20037-3213			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			03/21/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/543,055	KODAMA ET AL.				
Office Action Summary	Examiner	Art Unit				
	JAMES A. FIORITO	1793				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum stautory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	-· action is non-final.					
<i>;</i> —	, 					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	pa					
Disposition of Claims						
4)⊠ Claim(s) <u>1-3,5-7,11-16,18-21,23-27,29-32 and 35-43</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-3,5-7,11-16,18-21,23-27,29-32 and</u>	<u>35-43</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>16 November 2005</u> is/ar	re: a)⊠ accepted or b)⊡ objecto	ed to by the Examiner.				
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:	, , , , , , , , , , , , , , , , , , , ,					
1. ☐ Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents		on No.				
	• •					
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application						
Paper No(s)/Mail Date <u>11/05</u> . 6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 12 and 15-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The meets and bounds of the limitation "and a dispersion after synthesizing silica, and characterized by having its surface treated with a reactive silicone" is indefinite.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 5-7, 11-16, 18-21, 23-27, 29-32, and 35-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Imanishi US 2004/0116578 in view of Oishi US 6676920.

Imanishi teaches a process of making granular inorganic filler to be used in resin compositions. The inorganic filler comprises silica and magnesium hydroxide used alone or in combination (Paragraph 26). To enhance the affinity of the inorganic filler with the resin the filler may be treated with stearic acid, magnesium stearate, or silane

coupling agents (Paragraph 27). The filler may also be treated with wetting agents such as silicone oil to enhance the kneading property of the resin (Paragraph 31).

Imanishi does not expressly state that the magnesium hydroxide is formed from a reaction of a magnesium salt and a metal hydroxide or that the magnesium hydroxide is surface treated simultaneously with its synthesis.

Oishi teaches a process of making magnesium hydroxide as filler for flame retardant resin compositions (Abstract). Magnesium hydroxide is made by reacting magnesium chloride with sodium hydroxide at room temperature (Example 1).

At the time of invention it would have been obvious to a person of ordinary skill in the art to form the process of Imanishi including the magnesium hydroxide is formed from a reaction of a magnesium salt and a metal hydroxide with its synthesis in view of the teaching of Oishi. The suggestion or motivation for doing so would have been to provide a means of making the magnesium hydroxide required by the process of Imanishi but not disclosed.

It would also have been obvious to surface treat the particles during the synthesis step, since combining the two steps would not produce any unexpected results over the teaching of Imanishi in view Oishi.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kiuchi US 2003/0152776 teaches a flame-retardant epoxy resin

composition and laminate made with the same. Ihara US 2002/0198303 teaches a flame-retardant resin composition free from halogen.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES A. FIORITO whose telephone number is (571)272-7426. The examiner can normally be reached on 9am - 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on (571) 272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James A Fiorito/ Examiner, Art Unit 1793 /Wayne Langel/ Primary Examiner, Art Unit 1793